

OIPE

RAW SEQUENCE LISTING

DATE: 01/02/2002

PATENT APPLICATION: US/10/014,363

TIME: 14:37:07

Input Set : A:\CD Seq.20805.txt

Output Set: N:\CRF3\01022002\J014363.raw

ENTERED

3 <110> APPLICANT: Burg, Josef
 4 Engel, Alfred
 5 Franze, Reinhard
 6 Hilger, Bernd
 7 Schurig, Hartmut Ernst
 8 Tischer, Wilhelm
 9 Wozny, Manfred
 11 <120> TITLE OF INVENTION: Erythropoietin Conjugates
 13 <130> FILE REFERENCE: Case 20805
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/014,363
 C--> 15 <141> CURRENT FILING DATE: 2001-12-11
 15 <160> NUMBER OF SEQ ID NOS: 5
 17 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 165
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
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 31 Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His
 32 20 25 30
 34 Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe
 35 35 40 45
 37 Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp
 38 50 55 60
 40 Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu
 41 65 70 75 80
 43 Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp
 44 85 90 95
 46 Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu
 47 100 105 110
 49 Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala
 50 115 120 125
 52 Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val
 53 130 135 140
 55 Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala
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 65 <212> TYPE: PRT
 66 <213> ORGANISM: Homo sapiens
 68 <400> SEQUENCE: 2
 70 Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu
 71 1 5 10 15

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73 Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His
74      20      25      30
76 Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe
77      35      40      45
79 Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp
80      50      55      60
82 Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu
83 65      70      75      80
85 Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp
86      85      90      95
88 Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu
89      100     105     110
91 Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala
92      115     120     125
94 Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val
95      130     135     140
97 Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala
98 145     150     155     160
100 Cys Arg Thr Gly Asp Arg
101      165
104 <210> SEQ ID NO: 3
105 <211> LENGTH: 174
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107 <213> ORGANISM: CHO/dhfr-
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117 Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr
118      35      40      45
120 Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val
121      50      55      60
123 Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu
124 65      70      75      80
126 Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp
127      85      90      95
129 Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser
130      100     105     110
132 Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser
133      115     120     125
135 Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp
136      130     135     140
138 Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys
139 145     150     155     160
141 Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg
142      165     170
146 <210> SEQ ID NO: 4
147 <211> LENGTH: 169

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149 <213> ORGANISM: CHO/dhfr-
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156 Arg Tyr Leu Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys
157 20 25 30
159 Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys
160 35 40 45
162 Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val
163 50 55 60
165 Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly
166 65 70 75 80
168 Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln Leu
169 85 90 95
171 His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu
172 100 105 110
174 Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala
175 115 120 125
177 Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu
178 130 135 140
180 Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr
181 145 150 155 160
183 Gly Glu Ala Cys Arg Thr Gly Asp Arg
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190 <211> LENGTH: 174
191 <212> TYPE: PRT
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197 1 5 10 15
199 Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu Ala Glu Asn
200 20 25 30
202 Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr
203 35 40 45
205 Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val
206 50 55 60
208 Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu
209 65 70 75 80
211 Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp
212 85 90 95
214 Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser
215 100 105 110
217 Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser
218 115 120 125
220 Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp
221 130 135 140
223 Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys

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224	145				150					155				160
226	Leu	Lys	Leu	Tyr	Thr	Gly	Glu	Ala	Cys	Arg	Thr	Gly	Asp	Arg
227					165					170				

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/014,363

DATE: 01/02/2002

TIME: 14:37:08

Input Set : A:\CD Seq.20805.txt

Output Set: N:\CRF3\01022002\J014363.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date